

6. (Amended-Clean Text) The method according to claim 1, in which the gap information is described by using a data containing the residue number of another sequence not included in the alignment or a virtual sequence or column number of a standard representation of the alignment information or a numerical data convertible to the data.

7. (Amended-Clean Text) A method of generating a gap information of a new alignment information by calculating on only a gap information generated from an information of one or more alignments by any one of the methods according to claim 1.

8. (Amended-Clean Text) A method of obtaining a standard representation of an alignment information from both a gap information and a sequence information obtained by the method according to claim 1.

12. (Amended-Clean Text) A data record including at least its identifier and a gap information and identifiers of sequences in a sequence information generated by the method according to claim 1, and a media containing one or more of the record.

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